

## **IMPLEMENTATION SCHEDULE**

The Implementation Schedule that follows describes recovery task priorities, task numbers, task descriptions, duration of tasks, potential or participating responsible parties, total cost estimate and estimates for the next five years, if available, and comments. These tasks, when accomplished, will lead to recovery of bull trout in the Northeast Washington Recovery Unit. Cost estimates are not provided for tasks which are normal agency responsibility under existing authorities.

Parties with authority, responsibility, or expressed interest to implement a specific recovery task are identified in the Implementation Schedule. Lead party are designated in bold type. Listing a responsible party does not imply that prior approval has been given or require that party to participate or expend any funds. However, willing participants will benefit by demonstrating that their budget submission or funding request is for a recovery task identified in an approved recovery plan, and is therefore part of a coordinated recovery effort to recover bull trout. In addition, section 7 (a)(1) of the Endangered Species Act directs all Federal Agencies to use their authorities to further the purposes of the Act by implementing programs for the conservation of threatened or endangered species.

The following are definitions to column headings in the Implementation Schedule:

Priority Number: All priority 1 tasks are listed first, followed by priority 2 and priority 3 tasks.

Priority 1: All actions that must be taken to prevent extinction or to prevent the species from declining irreversibly in the foreseeable future.

Priority 2: All actions that must be taken to prevent a significant decline in species population or habitat quality or to prevent some other significant negative effect short of extinction.

Priority 3: All other actions necessary to provide for full recovery (or reclassification) of the species.

Task Number and Task Description: Recovery tasks as numbered in the recovery outline. Refer to the action narrative for task descriptions.

Task Duration: Expected number of years to complete the corresponding task. Study designs can incorporate more than one task, which when combined may reduce the time needed for task completion.

Responsible or Participating Party: The following organizations are those with responsibility or capability to fund, authorize, or carry out the corresponding recovery task. Additional identified agencies or parties are considered cooperators in restoration efforts. Identified parties include:

|       |                                            |
|-------|--------------------------------------------|
| USFWS | U.S. Fish and Wildlife Service             |
| WDFW  | Washington Department of fish and Wildlife |
| KT    | Kalispell Tribe                            |
| ST    | Spokane Tribe                              |
| WDNR  | Washington Department of Natural Resources |
| COE   | U.S. Army Corp of Engineers                |
| BPA   | Bonneville Power Administration            |
| SCL   | Seattle City Light                         |
| POPUD | Pend Oreille Public Utilities District     |
| FERC  | Federal Energy Regulatory Commission       |
| WDOE  | Washington Department of Ecology           |
| EPA   | Environmental Protection Agency            |
| USFS  | U.S. Forest Service                        |
| WSCC  | Washington State Conservation Commission   |
| POCO  | Pend Oreille County                        |

**Bold type** indicates the agency or agencies that have the lead role for task implementation and coordination, though not necessarily sole responsibility.

Cost Estimates: Cost estimates are rough approximations and provided only for general guidance. Total costs are estimated for the duration of the task, are itemized annually for the next five years, and include estimates of expenditures by local, Tribal, State, and Federal governments and by private business and individuals.

An asterisk (\*) in the total cost column indicates ongoing tasks that are currently being implemented as part of normal agency responsibilities under existing authorities. Because these tasks are not being done specifically or solely for bull trout conservation, they are not included in the cost estimates. Some of these efforts may be occurring at reduced funding levels and/or in only a small portion of the watershed.

Double asterisk (\*\*) in the total cost column indicates that estimated costs for these tasks are not determinable at this time. Input is requested to help develop reasonable cost estimates for these tasks.

Triple asterisk (\*\*\*) indicates costs are combined with or embedded within other related tasks.

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| <b>NORTHEAST WASHINGTON RECOVERY UNIT - IMPLEMENTATION SCHEDULE</b> |             |                                                                                                                                   |                       |                               |                          |        |        |        |        |        |                                   |
|---------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------|--------------------------|--------|--------|--------|--------|--------|-----------------------------------|
| Priority number                                                     | Task number | Task description                                                                                                                  | Task duration (years) | Responsible parties           | Cost estimates (\$1,000) |        |        |        |        |        | Comments                          |
|                                                                     |             |                                                                                                                                   |                       |                               | Total cost               | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |                                   |
| 1                                                                   | 1.1.1       | Investigate and improve water quality                                                                                             | 3                     | <b>WDOE, EPA, POCO, USFWS</b> | 150                      | 50     | 50     | 50     |        |        |                                   |
| 1                                                                   | 1.2.2       | Provide fish passage at Albeni Falls Dam                                                                                          | 2                     | <b>COE, USFWS</b>             | 400                      | 200    | 200    |        |        |        |                                   |
| 1                                                                   | 1.2.3       | Provide fish passage at Box Canyon Dam                                                                                            | 3                     | <b>POPUD, USFWS, FERC</b>     | 600                      | 200    | 200    | 200    |        |        | May not start until 2005 or later |
| 1                                                                   | 1.2.7       | After nonnative fish species are eliminated, remove historic water diversion on the upper West Branch of the LeClerc Creek system | 3                     | <b>USFS, KT, WDFW, USFWS</b>  | 350                      | 50     | 250    | 50     |        |        |                                   |
| 1                                                                   | 1.2.8       | Reduce entrainment                                                                                                                | 5                     | <b>SCL, COE, POPUD, USFWS</b> | 2,500                    | 500    | 500    | 500    | 500    | 500    |                                   |
| 1                                                                   | 1.2.9       | Provide fish passage at Boundary Dam                                                                                              | 3                     | <b>SCL, USFWS</b>             | 600                      | 200    | 200    | 200    |        |        |                                   |

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|---------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------|--------------------------|--------|--------|--------|--------|--------|-----------------------------------------|
| Priority number                                                     | Task number | Task description                                                                                                                         | Task duration (years) | Responsible parties                    | Cost estimates (\$1,000) |        |        |        |        |        | Comments                                |
|                                                                     |             |                                                                                                                                          |                       |                                        | Total cost               | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |                                         |
| 1                                                                   | 1.3.7       | Develop habitat restoration/protection guidelines                                                                                        | 25                    | <b>WDNR, USFS, KT, ST, USFWS, WDFW</b> | *                        |        |        |        |        |        |                                         |
| 1                                                                   | 1.4.1       | Evaluate instream flow requirements of bull trout                                                                                        | 6                     | <b>COE, POPUD, SCL USFWS</b>           | 1000                     | 200    | 400    | 300    | 100    |        |                                         |
| 1                                                                   | 1.4.2       | Design and deploy gas abatement structures                                                                                               | 9                     | <b>COE, POPUD, SCL USFWS</b>           | 900                      | 300    | 300    | 300    |        |        | Cost for construction to be determined. |
| 1                                                                   | 2.5.1       | Reduce abundance and distribution of non-native species                                                                                  | 25                    | <b>WDFW, KT, ST, USFS</b>              | 2,500                    | 100    | 100    | 100    | 100    | 100    |                                         |
| 1                                                                   | 2.6.1       | Liberalize harvest regulations to reduce non-natives where bull trout will benefit                                                       | 25                    | <b>WDFW</b>                            | *                        |        |        |        |        |        |                                         |
| 1                                                                   | 2.6.2       | Evaluate presence/absence of introduced fishes in bull trout habitat and determine site specific biological, economic, and social impact | 5                     | <b>WDFW, KT, ST, USFWS</b>             | 250                      | 50     | 50     | 50     | 50     | 50     |                                         |

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| Priority number                                                     | Task number | Task description                                                                     | Task duration (years) | Responsible parties                                | Cost estimates (\$1,000) |        |        |        |        |        | Comments |
|                                                                     |             |                                                                                      |                       |                                                    | Total cost               | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |          |
| 1                                                                   | 4.3.2       | Establish genetic baselines                                                          | 3                     | <b>WDFW, KT, ST, USFWS</b>                         | 180                      | 70     | 100    | 10     |        |        |          |
| 1                                                                   | 5.2.1       | Identify threats that may be limiting bull trout in watersheds not already evaluated | 5                     | <b>WDFW, KT, ST USFS, USFWS, WSCC</b>              | 500                      | 100    | 100    | 100    | 100    | 100    |          |
| 1                                                                   | 1.3.9       | Implement habitat restoration at Box Canyon Dam, Sullivan Creek, and Boundary Dam    | 10-25                 | <b>FERC, SCL, POPUD, USFWS, USFS, WDFW, KT, ST</b> | *                        |        |        |        |        |        |          |
| 2                                                                   | 1.2.1       | Provide fish passage on Cedar Creek                                                  | 2                     | <b>CITY OF IONE, USFWS, USFS, KT, WDFW</b>         | 200                      | 100    | 100    |        |        |        |          |
| 2                                                                   | 1.2.4       | Provide fish passage at tributary dams and barriers                                  | 3                     | <b>POPUD USFWS</b>                                 | 600                      | 200    | 200    | 200    |        |        |          |
| 2                                                                   | 1.2.5       | Remove or replace culverts                                                           | 10                    | <b>USFS, WDNR, WDFW, USFWS, KT</b>                 | 2,250                    | 250    | 250    | 250    | 250    | 250    |          |

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| Priority number                                                     | Task number | Task description                                                                                                                                                 | Task duration (years) | Responsible parties             | Cost estimates (\$1,000) |        |        |        |        |        | Comments |
|                                                                     |             |                                                                                                                                                                  |                       |                                 | Total cost               | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |          |
| 2                                                                   | 1.2.6       | After elimination of brook trout in the LeClerc Creek watershed, reposition or replace presently impassable culvert on U.S. Forest Service Road 1935080 crossing | 2                     | <b>USFS, WDFW, USFWS, KT</b>    | 700                      | 200    | 500    |        |        |        |          |
| 2                                                                   | 1.3.1       | Repair roads                                                                                                                                                     | 15                    | <b>USFS, USFWS, WDNR, POCO,</b> | 2,250                    | 150    | 150    | 150    | 150    | 150    |          |
| 2                                                                   | 1.3.2       | Develop and implement adaptive management plans for areas impacted by livestock grazing                                                                          | 5                     | <b>USFS, WDNR, USFWS</b>        | 500                      | 100    | 100    | 100    | 100    | 100    |          |
| 2                                                                   | 1.3.3       | Improve riparian and instream habitat                                                                                                                            | 20                    | <b>USFS, USFWS, KT</b>          | 4,000                    | 200    | 200    | 200    | 200    | 200    |          |
| 2                                                                   | 1.3.4       | Improve compliance with riparian management guidelines                                                                                                           | 25                    | <b>WDNR</b>                     | *                        |        |        |        |        |        |          |
| 2                                                                   | 1.3.5       | Maintain roadless portions of bull trout watersheds in a roadless condition                                                                                      | 25                    | <b>USFS</b>                     | *                        |        |        |        |        |        |          |

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| Priority number                                                     | Task number | Task description                                                                                                             | Task duration (years) | Responsible parties          | Cost estimates (\$1,000) |        |        |        |        |        | Comments |
|                                                                     |             |                                                                                                                              |                       |                              | Total cost               | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |          |
| 2                                                                   | 1.3.6       | Minimize impacts of dredging and sluicing within streams containing bull trout ( <i>i.e.</i> Sullivan Creek)                 | 25                    | <b>WDNR, USFWS</b>           | *                        |        |        |        |        |        |          |
| 2                                                                   | 1.3.8       | Reduce road densities                                                                                                        | 5                     | <b>USFS, WDNR, KT, POCO</b>  | 1,700                    | 100    | 100    | 500    | 500    | 500    |          |
| 2                                                                   | 3.1.1       | Develop comprehensive fisheries management plans for Boundary and Box Canyon Reservoirs that incorporate bull trout recovery | 2                     | <b>WDFW, KT, USFWS, USFS</b> | 200                      | 100    | 100    |        |        |        |          |
| 2                                                                   | 3.2.1       | Continue implementation and enforcement of restrictive fishing regulations                                                   | 25                    | <b>WDFW, KT, ST</b>          | *                        |        |        |        |        |        |          |
| 2                                                                   | 3.2.2       | Provide information to anglers                                                                                               | 10                    | <b>WDFW, USFWS KT, USFS</b>  | 1,500                    | 150    | 150    | 150    | 150    | 150    |          |
| 2                                                                   | 3.2.3       | Reduce angler pressure                                                                                                       | 25                    | <b>WDFW, KT, ST</b>          | *                        |        |        |        |        |        |          |

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| Priority number                                                     | Task number | Task description                                                                                                         | Task duration (years) | Responsible parties              | Cost estimates (\$1,000) |        |        |        |        |        | Comments |
|                                                                     |             |                                                                                                                          |                       |                                  | Total cost               | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |          |
| 2                                                                   | 3.3.1       | Evaluate impacts of stocking programs                                                                                    | 3                     | <b>KT, USFWS, WDFW</b>           | 300                      | 100    | 100    | 100    |        |        |          |
| 2                                                                   | 3.4.1       | Evaluate impact of scientific collection permits on bull trout local populations                                         | 25                    | <b>USFWS, WDFW</b>               | *                        |        |        |        |        |        |          |
| 2                                                                   | 4.3.3       | Evaluate threat of hybridization with brook trout                                                                        | 3                     | <b>WDFW, USFS, USFWS,</b>        | *                        |        |        |        |        |        |          |
| 2                                                                   | 4.3.4       | Evaluate feasibility of an artificial propagation program                                                                | 3                     | <b>USFWS, WDFW, YN</b>           | 30                       | 10     | 20     | 10     |        |        |          |
| 2                                                                   | 5.1.1       | Increase monitoring                                                                                                      | 25                    | <b>KT, WDFW, USFWS</b>           | 2,500                    | 100    | 100    | 100    | 100    | 100    |          |
| 2                                                                   | 5.1.2       | Develop a comprehensive map of primary bull trout tributary reaches for focusing habitat protection and recovery efforts | 3                     | <b>USFWS, KT, WDFW, USFS</b>     | 75                       | 25     | 25     | 25     |        |        |          |
| 2                                                                   | 6.1.1       | Support collaborative efforts.                                                                                           | 20                    | <b>WDFW, USFS, USFWS, KT, ST</b> | 2,000                    | 100    | 100    | 100    | 100    | 100    |          |

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| Priority number                                                     | Task number | Task description                                                                       | Task duration (years) | Responsible parties        | Cost estimates (\$1,000) |        |        |        |        |        | Comments |
|                                                                     |             |                                                                                        |                       |                            | Total cost               | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |          |
| 2                                                                   | 6.1.2       | Provide long-term habitat protection                                                   | 10                    | <b>USFS, KT, USFWS</b>     | 1,000                    | 100    | 100    | 100    | 100    | 100    |          |
| 2                                                                   | 6.3.1       | Review and implement Forest and Fish standards                                         | 25                    | <b>WDNR, WDFW, USFWS</b>   | *                        |        |        |        |        |        |          |
| 3                                                                   | 4.3.1       | Establish genetic protocols                                                            | 3                     | <b>USFWS, WDFW, KT, ST</b> | *                        |        |        |        |        |        |          |
| 3                                                                   | 6.3.2       | Monitor and enforce Hydraulic Permit Applications in the State of Washington           | 25                    | <b>WDNR, WDFW</b>          | *                        |        |        |        |        |        |          |
| 3                                                                   | 7.3.1       | Periodically review progress toward recovery goals and assess recovery task priorities | 25                    | <b>USFWS, USFS, WDFW</b>   | *                        |        |        |        |        |        |          |